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AMENDMENT TO THE CLAIMS

1. (Currently Amended) A computer implemented method for rendering a single frame of a synthesized image, comprising:

generating a geometric component corresponding to a selected image for the frame based on identified feature points from a set of representative images, where each image of the set has the identified feature points, and wherein the geometric component is a dimensional vector of feature point positions; and

generating the selected image for the frame from a composite of the set of representative images based on the geometric component, wherein the selected image and each of the set of representative images comprises a plurality of subregions defined proximate each other, and wherein generating a geometric component is performed for each subregion, and wherein generating the selected image comprises generating a composite of the set of representative images based on the corresponding geometric component for each subregion, and rendering a synthesized subregion proximate each other with blending at least some boundaries between adjacent subregions without discontinuities in texture in order to generate the selected image.

2. (Original) The method of claim 1 wherein generating a geometric component includes calculating a plurality of values, wherein a value of the plurality of values is associated with each representative image, and wherein generating the selected image comprises using the plurality of values to composite the set of representative images.

3-5. (Canceled)

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6. (Original) The method of claim 3 wherein at least one synthesized subregion is based on a quantity of a set of representatives different than another synthesized subregion.

7. (Original) The method of claim 1 wherein the feature points correspond to a two-dimensional image.

8. Cancelled.

9. Cancelled

10. (Original) The method of claim 1 wherein the feature points correspond to a three-dimensional image.

11. Cancelled

12. Cancelled

13. (Original) The method of claim 1 wherein generating a geometric component corresponding to a selected image based on identified feature points on the image comprises ascertaining a position of at least one feature point from a change in position of another feature point.

14. (Original) The method of claim 13 wherein the feature points are grouped in sets, each set pertaining to a different region of the synthesized image, and wherein ascertaining a position of at least one feature point comprises ascertaining positions of feature points in a set from a change in position of a feature point in the set.

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15. (Original) The method of claim 14 wherein ascertaining a position of at least one feature point comprises ascertaining positions of feature points in the set using principle components derived from analyzing positional changes of feature points in the set for the representative images through principle component analysis.

16. (Original) The method of claim 15 wherein ascertaining a position of at least one feature point comprises ascertaining positions of feature points in a first set from a change in position of at least one feature point in another set.

17. (Original) The method of claim 16 wherein the sets are hierarchical.

18. (Original) The method of claim 1 and further comprising:  
monitoring feature points of a user; and  
wherein generating a geometric component corresponding to a selected image  
includes generating the geometric component corresponding to a change in  
position of feature points of the user; and  
wherein generating the selected image corresponds to the change in position of  
feature points of the user.

19. (Original) The method of claim 18 wherein generating a geometric component corresponding to a selected image based on identified feature points comprises ascertaining a position of at least one feature point from a change in position of another feature point.

20. (Original) The method of claim 1 and further comprising:  
rendering an image with feature points identified thereon; and  
receiving information indicative of a user moving a feature point.

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21. (Original) The method of claim 20 wherein generating a geometric component corresponding to a selected image based on identified feature points comprises ascertaining a position of at least one feature point from a change in position of another feature point.

22. (Original) The method of claim 1 wherein the selected image comprises a selected expression.

23. (Original) The method of claim 22 wherein the selected image comprises a selected facial expression.

24. (Original) The method of claim 1 wherein the each of the set of representative images are aligned with respect to a reference image.

25. (Currently Amended) A computer implemented method for rendering a single frame of a synthesized image based on feature points, comprising:  
accessing a set of stored representatives of various images, wherein each image of the set of the images has the same corresponding feature points associated therewith;  
ascertaining a position of at least one feature point from a change in position of another feature point based on a change in movement of the selected feature point and based on the set of stored representatives of various images; and  
rendering a new image for the frame with two or more feature points having changed position, wherein the new image and each image in the set of stored representatives of various images comprises a plurality of subregions defined proximate each other, and rendering includes rendering a synthesized subregion proximate each other with blending at least some boundaries between adjacent subregions wherein blending occurs along boundaries without discontinuities in texture to generate the new image.

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26. (Original) The method of claim 25 wherein the feature points are grouped in sets, each set pertaining to a different region of the synthesized image, and wherein ascertaining a position of at least one feature point comprises ascertaining positions of feature points in a set from a change in position of one feature point in the set.

27. (Previously Presented) The method of claim 26 wherein ascertaining a position of at least one feature point comprises ascertaining positions of feature points in the set using principle components derived from analyzing positional changes of feature points in the set of stored representatives of various images through principle component analysis.

28. (Original) The method of claim 27 wherein ascertaining a position of at least one feature point comprises ascertaining positions of feature points in a first set from a change in position of at least one feature point in another set.

29. (Original) The method of claim 28 wherein the sets are hierarchical.

30-32. (Cancelled)

33. (Original) The method of claim 30 wherein at least one synthesized subregion is based on a quantity of a set of representatives different than another synthesized subregion.

34. (Original) The method of claim 25 and further comprising monitoring feature points of a user.

35. (Currently Amended) A computer implemented method for rendering a single frame of a synthesized facial images based on feature points, comprising:

rendering a facial image with identified feature points;

receiving information indicative of a user moving a selected feature point;

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accessing a set of stored representatives of various facial images, wherein each image of the set of stored images has the same corresponding feature points associated therewith;

ascertaining a position of at least one feature point from a change in position of another feature point based on a change in movement of the selected feature point and based on the set of stored representatives of various facial images; and

rendering a new facial image for the frame with two or more feature points having changed position, wherein the new image and each facial image in the set of stored representatives of various facial images comprises a plurality of subregions defined proximate each other, and rendering a synthesized subregion proximate each other with blending at least some boundaries between adjacent subregions without discontinuities in texture in order to generate the new image.

36. (Original) The method of claim 35 wherein the feature points are grouped in sets, each set pertaining to a different region of the synthesized image, and wherein ascertaining a position of at least one feature point comprises ascertaining positions of feature points in a set from a change in position of one feature point in the set.

37. (Previously Presented) The method of claim 36 wherein ascertaining a position of at least one feature point comprises ascertaining positions of feature points in the set using principle components derived from analyzing positional changes of feature points in the set of stored representatives of various images through principle component analysis.

38. (Original) The method of claim 37 wherein ascertaining a position of at least one feature point comprises ascertaining positions of feature points in a first set from a change in position of at least one feature point in another set.

39. (Original) The method of claim 38 wherein the sets are hierarchical.

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40-42 (Cancelled)

43. (Original) The method of claim 40 wherein at least one synthesized subregion is based on a quantity of a set of representatives different than another synthesized subregion.